



FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0609.4730000/LBB/M-GAPPLICATION NO.
09/869,565APPLICANT
Gardella et al.FILING DATE
October 17, 2001GROUP
1646

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ZH	AA1	4,086,196	04/25/1978	Tregear			03/28/1975
	AB1	5,217,896	06/08/1993	Kramer et al.			12/30/1988
	AC1	6,417,333 B1	07/09/2002	Bringhurst et al.			11/24/1999
	AD1	6,495,662 B1	12/17/2002	Gardella et al.			10/20/1999
	AE1	6,537,965 B1	03/25/2003	Bringhurst et al.			11/23/1999
	AF1	6,541,220 B1	04/01/2003	Juppner et al.			11/30/1999
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EXAMINER INITIAL	—	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
ZH	AL1	WO 87/01130	02/26/1987	WIPO			Yes No
	AM1	WO 91/05050	04/18/1991	WIPO			Yes No
	AN1	EP 0 464 533	01/08/1992	Europe			X Yes No
	AO1	EP 0 477 885	04/01/1992	Europe			Yes No
	AP1	WO 92/17602	10/15/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	1	Abou-Samra, A.B., et al., "Phorbol 12-Myristate 13-Acetate and Vasopressin Potentiate the Effect of Corticotropin-releasing Factor on Cyclic AMP Production in Rat Anterior Pituitary Cells," <i>J. Biol. Chem.</i> 262:1129-1136, The American Society for Biochemistry and Molecular Biology, Inc. (1987)
	AS	1	Abou-Samra, A.B., et al., "Cyclic Adenosine 3',5'-Monophosphate (cAMP)-Dependent and cAMP-Independent Regulation of Parathyroid Hormone Receptors on UMR 106-01 Osteoblastic Osteosarcoma Cells," <i>Endocrinology</i> 129:2547-2554, The Endocrine Society (1991)
	AT	1	Abou-Samra, A.B., et al., "Non-Homologous Sequences of Parathyroid and the Parathyroid Hormone Related Peptide Bind to a Common Receptor on ROS 17/2.8 Cells," <i>Endocrinology</i> 125:2215-2217, The Endocrine Society (1989)

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ZH	AL2 EP 0 561 412	09/22/1993	Europe			Yes No
	AM2 GB 2 269 176	02/02/1994	Great Britain			Yes No
	AN2 WO 95/11988	05/04/1995	WIPO			Yes No
	AO2 CA 2,126,132	12/18/1995	Canada			Yes No
↓	AP2 CA 2,126,299	12/21/1995	Canada			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	2	Azarani, A., et al., "Structurally Diverse N-terminal Peptides of Parathyroid Hormone (PTH) and PTH-related Peptide (PTHRP) Inhibit the Na ⁺ /H ⁺ Exchanger NHE3 Isoform by Binding to the PTH/PTHRP Receptor Type I and Activating Distinct Signaling Pathways," <i>J. Biol. Chem.</i> 271:14931-14936, The American Society for Biochemistry and Molecular Biology, Inc. (1996)
	AS	2	Barbier, J.-R., et al., "Bioactivities and Secondary Structures of Constrained Analogues of Human Parathyroid Hormone: Cyclic Lactams of the Receptor Binding Region," <i>J. Med. Chem.</i> 40:1373-1380, Americna Chemical Society (April 1997)
↓	AT	2	Bennett, D., et al., "Kinetic Characterization of the Interaction of Biotinylated Human Interleukin 5 with an Fc Chimera of its Receptor α Subunit and Development of a ELISA Screening Assay using Real-Time Interaction Biosensor Analysis," <i>J. Molec. Recognition</i> 8:52-58, John Wiley & Sons, Ltd. (1995)

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ZH	AL3 EP 0 748 817	12/18/1996	Europe			Yes No
	AM3 WO 97/02834	01/30/1997	WIPO			Yes No
	AN3 WO 98/05683	02/12/1998	WIPO			Yes No
	AO3 WO 99/18945	04/22/1999	WIPO			Yes No
	AP3 WO 00/31137	06/02/2000	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	3	Bergwitz, C., et al., "Full Activation of Chimeric Receptors by Hybrids between Parathyroid Hormone and Calcitonin," <i>J. Biol. Chem.</i> 271:26469-26472, The American Society for Biochemistry and Molecular Biology, Inc. (1996)
	AS	3	Bergwitz, C., et al., "Residues in the Membrane-spanning and Extracellular Loop Regions of the Parathyroid Hormone (PTH)-2 Receptor Determine Signaling Selectivity for PTH and PTH-related Peptide," <i>J. Biol. Chem.</i> 272:28861-28868, The American Society for Biochemistry and Molecular Biology, Inc. (November 1997)
	AT	3	Bisello, A., et al., "Parathyroid Hormone-Receptor Interactions Identified Directly by Photocross-linking and Molecular Modeling Studies," <i>J. Biol. Chem.</i> 273:22498-22505, The American Society for Biochemistry and Molecular Biology, Inc. (August 1998)

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ZH	AL4	WO 00/32775	06/08/2000	WIPO			Yes No
	AM4	WO 00/39278	07/06/2000	WIPO			Yes No
	AN4	WO 01/23427	04/05/2001	WIPO			Yes No
	AO4	WO 01/23521	04/05/2001	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	4	Bowie, J.U., et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions," <i>Science</i> 247:1306-1310, American Association for the Advancement of Science (1990)
	AS	4	Caulfield, M.P., et al., "The Bovine Renal Parathyroid Hormone (PTH) Receptor Has Equal Affinity for Two Different Amino Acid Sequences: The Receptor Binding Domains of PTH and PTH-Related Protein Are Located within the 14-34 Region" <i>Endocrinology</i> 127:83-87, The Endocrine Society (1990)
	AT	4	Chorev, M., et al., "Modifications of Position 12 in Parathyroid Hormone and Parathyroid Hormone Related Protein: Toward the Design of Highly Potent Antagonists," <i>Biochem.</i> 29:1580-1586, American Chemical Society (1990)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	5	Cleland, J.L., et al., "The Development of Stable Protein Formulations: A Close Look at Protein Aggregation, Deamidation, and Oxidation," <i>Crit. Rev. Ther. Drug Carrier Systems</i> 10:307-377, CRC Press, Inc. (1993)
	AS	5	Cohen, F.E., et al., "Analogues of Parathyroid Hormone Modified at Positions 3 and 6. Effects on Receptor Binding and Activation of Adenylyl Cyclase in Kidney and Bone," <i>J. Biol. Chem.</i> 266:1997-2004, The American Society for Biochemistry and Molecular Biology, Inc. (1991)
↓	AT	5	Cunningham, B.C., and Wells, J.A., "High-Resolution Epitope Mapping of hGH-Receptor Interactions by Alanine-Scanning Mutagenesis," <i>Science</i> 244:1081-1085, American Association for the Advancement of Science (1989)

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ZH	AR	6	Dautzenberg, F., et al., "Mapping of the ligand-selective domain of the <i>Xenopus laevis</i> corticotropin-releasing factor receptor 1: Implications for the ligand-binding site," <i>Proc. Natl. Acad. Sci. USA</i> 95:4941-4946, National Academy of Sciences (April 1998)
	AS	6	de Vos, A.M., et al., "Human Growth Hormone and Extracellular Domain of Its Receptor: Crystal Structure of the Complex," <i>Science</i> 255:306-312, American Association for the Advancement of Science (1992)
↓	AT	6	DeAlmeida, V., and Mayo, K., "Identification of Binding Domains of the Growth Hormone-Releasing Hormone Receptor by Analysis of Mutant and Chimeric Receptor Proteins," <i>Mol. Endocrinol.</i> 12:750-765, The Endocrine Society (May 1998)

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ZH	AR	?	Dempster, D.W., et al., "Anabolic Actions of Parathyroid Hormone on Bone," Endocr. Rev. 14:690-709, The Endocrine Society (1993)
	AS	?	Donahue, H.J., et al., "Differential Effects of Parathyroid Hormone and Its Analogues on Cytosolic Calcium Ion and cAMP Levels in Cultured Rat Osteoblast-like Cells," J. Biol. Chem. 263:13522-13527, The American Society for Biochemistry and Molecular Biology, Inc. (1988)
↓	AT	?	Gardella, T.J., et al., "Mutational Analysis of the Receptor-activating Region of Human Parathyroid Hormone," J. Biol. Chem. 266:13141-13146, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

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ZH	AR	8	Gardella, T.J., et al., "Determinants of [Arg ³] PTH-(1-34) Binding and Signaling in the Transmembrane Region of the Parathyroid Hormone Receptor," <i>Endocrinology</i> 135:1186-1194, The Endocrine Society (1994)
	AS	8	Gardella, T.J., et al., "Analysis of Parathyroid Hormone's Principal Receptor-Binding Region by Site-Directed Mutagenesis and Analog Design," <i>Endocrinology</i> 132:2024-2030, The Endocrine Society (1993)
↓	AT	8	Gardella, T.J., et al., "Transmembrane Residues of the Parathyroid Hormone (PTH)/PTH-related Peptide Receptor That Specifically Affect Binding and Signaling by Agonist Ligands," <i>J. Biol. Chem.</i> 271:12820-12825, The American Society for Biochemistry and Molecular Biology, Inc. (1996)

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AL						Yes No
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AO						Yes No
AP						Yes No

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ZH	AR	9	Gardella, T.J., et al., "Parathyroid Hormone (PTH)-PTH-related Peptide Hybrid Peptides Reveal Functional Interactions between the 1-14 and 15-34 Domains of the Ligand," <i>J. Biol. Chem.</i> 270:6584-6588, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
	AS	2	Gentz, R., et al., "Bioassay for trans-activation using purified human immunodeficiency virus tat-encoded protein: Trans-activation requires mRNA synthesis," <i>Proc. Natl. Acad. Sci. USA</i> 86:821-824, National Academy of Sciences (1989)
↓	AT	2	Gombert, F., et al., "Alanine and D-Amino Acid Scan of Human Parathyroid Hormone," in <i>Peptides: Chemistry, Structure and Biology</i> . Proceedings of the 14th American Peptide Symposium, June 18-23, Kaumaya, P.T.P., and Hodges, R.S., eds., Mayflower Scientific Ltd., Kingswinford, UK, pp. 661-662 (1996)

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ZH	AR	10	Guo, J., et al., "Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Density Modulates Activation of Phospholipase C and Phosphate Transport by PTH in LLC-PK1 Cells," <i>Endocrinology</i> 136:3884-3891, The Endocrine Society (1995)
	AS	10	Hjorth, S., et al., "Constitutive Activity of Glucagon Receptor Mutants," <i>Mol. Endocrinol.</i> 12:78-86, The Endocrine Society (January 1998)
↓	AT	10	Holtmann, M., et al., "Critical Contributions of Amino-terminal Extracellular Domains in Agonist Binding and Activation of Secretin and Vasoactive Intestinal Polypeptide Receptors. Studies of Chimeric Receptors," <i>J. Biol. Chem.</i> 270:14394-14398, The American Society for Biochemistry and Molecular Biology, Inc. (1995)

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ZH	AR	11	Horiuchi, N., et al., "A Parathyroid Hormone Inhibitor in vivo: Design and Biological Evaluation of a Hormone Analog," <i>Science</i> 220:1053-1055, American Association for the Advancement of Science (1983)
	AS	11	Hruska, K.A., et al., "Stimulation of Inositol Trisphosphate and Diacylglycerol Production in Renal Tubular Cells by Parathyroid Hormone," <i>J. Clin. Invest.</i> 79:230-239, The Rockefeller University Press (1987)
↓	AT	11	Ji, I.H., and Ji, T.H., "Human Choriogonadotropin Binds to a Lutropin Receptor with Essentially No N-terminal Extension and Stimulates cAMP Synthesis," <i>J. Biol. Chem.</i> 266:13076-13079, The American Society for Biochemistry and Molecular Biology, Inc. (1991)

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ZH	AR	<u>12</u>	Johanson, K., et al., "Binding Interactions of Human Interleukin 5 with Its Receptor α Subunit. Large Scale Production, Structural, and Functional Studies of Drosophila-Expressed Recombinant Proteins," <i>J. Biol. Chem.</i> 270:9459-9471, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
	AS	<u>12</u>	Jüppner, H., et al., "A G Protein-Linked Receptor for Parathyroid Hormone and Parathyroid Hormone-Related Peptide," <i>Science</i> 254:1024-1026, American Association for the Advancement of Science (1991)
↓	AT	<u>12</u>	Jüppner, H., et al., "The Extracellular Amino-Terminal Region of the Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Determines the Binding Affinity for Carboxyl-Terminal Fragments of PTH-(1-34)," <i>Endocrinology</i> 134:879-884, The Endocrine Society (1994)

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AN						Yes No
AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	<u>13</u>	Kolakowski, L.F., "GCRDb: A G-Protein-Coupled Receptor Database," <i>Receptors and Channels</i> 2:1-7, Harwood Academic Publishers (1994)
	AS	<u>13</u>	Kronenberg, H.M., et al., "Parathyroid Hormone: Biosynthesis, Secretion, Chemistry, and Action," in <i>Handbook of Experimental Pharmacology</i> , Volume 107, Mundy, G.R., and Martin, T.J., eds., Springer-Verlag, Berlin, Germany, pp.507-567 (1993)
↓	AT	<u>13</u>	Lanske, B., et al., "PTH/PTHrP Receptor in Early Development and Indian Hedgehog-Regulated Bone Growth," <i>Science</i> 273:663-666, American Association for the Advancement of Science (1996)

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ZH	AR	14	Lee, C., et al., "Homolog-Scanning Mutagenesis of the Parathyroid Hormone (PTH) Receptor Reveals PTH-(1-34) Binding Determinants in the Third Extracellular Loop," <i>Mol. Endocrinol.</i> 9:1269-1278, The Endocrine Society (1995)
	AS	14	Lee, C., et al., "Role of the Extracellular Regions of the Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor in Hormone Binding," <i>Endocrinology</i> 135:1488-1495, The Endocrine Society (1994)
↓	AT	14	Luck, M.D., et al., "The (1-14) Fragment of Parathyroid Hormone (PTH) Activates Intact and Amino-Terminally Truncated PTH-1 Receptors," <i>Mol. Endocrinol.</i> 13:670-680, The Endocrine Society (May 1999)

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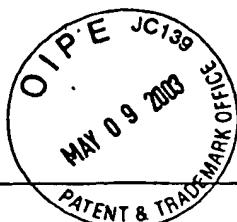
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ZH	AR	15	Mannstadt, M., et al., "Evidence for a Ligand Interaction Site at the Amino-Terminus of the Parathyroid Hormone (PTH)/PTH-related Protein Receptor from Cross-linking and Mutational Studies," <i>J. Biol. Chem.</i> 273:16890-16896, The American Society for Biochemistry and Molecular Biology, Inc. (July 1998)
	AS	15	McCuaig, K.A., et al., "Molecular cloning of the gene encoding the mouse parathyroid hormone/parathyroid hormone-related peptide receptor," <i>Proc. Natl. Acad. Sci. USA</i> 91:5051-5055, National Academy of Sciences (1994)
↓	AT	15	McGeoch, D.J., "On the predictive recognition of signal peptide sequences," <i>Virus Res.</i> 3:271-286, Elsevier Science B.V. (1985)

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ZH	AR	<u>16</u>	Mikayama, T., et al., "Molecular cloning and functional expression of a cDNA encoding glycosylation-inhibiting factor," <i>Proc. Natl. Acad. Sci USA</i> 90:10056-10060, National Academy of Sciences (1993)
	AS	<u>16</u>	Nakai, K., and Kanehisa, M., "A Knowledge Base for Predicting Protein Localization Sites in Eukaryotic Cells," <i>Genomics</i> 14:897-911, Academic Press, Inc. (1992)
↓	AT	<u>16</u>	Neugebauer, W., et al., "Solution Structure and Adenylyl Cyclase Stimulating Activities of C-Terminal Truncated Human Parathyroid Hormone Analogues," <i>Biochem.</i> 34:8835-8842, American Chemical Society (1995)

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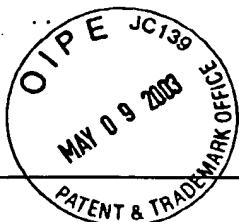
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ZH	AR	17	Nielsen, H., et al., <i>Prot. Eng.</i> 10:1-6, Identification of prokaryotic and eukaryotic signal peptides and prediction of their cleavage sites," Oxford university Press (January 1997)
	AS	17	Nussbaum, S.R., et al., "Parathyroid Hormone•Renal Receptor Interactions. Demonstration of Two Receptor-Binding Domains," <i>J. Biol. Chem.</i> 255:10183-10187. The American Society of Biological Chemists, Inc. (1980)
↓	AT	17	Nutt, R.F., et al., "Removal of Partial Agonism From Parathyroid Hormone (PTH)-Related Protein-(7-34)NH ₂ by Substitution of PTH Amino Acids at Positions 10 and 11," <i>Endocrinology</i> 127:491-493, The Endocrine Society (1990)

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ZH	AR	18	Pinckard, R.N., et al., "Factors Influencing the Immune Response. I. Effects of the Physical State of the Antigen and of Lymphoreticular Cell Proliferation on the Response to Intravenous Injection of Bovine Serum Albumin in Rabbits," <i>Clin. Exp. Immunol.</i> 2:331-340, Blackwell Scientific Publications (1967)
	AS	18	Rieger, R., et al., "allele" in <i>Glossary of Genetics and Cytogenetics. Classic and Molecular</i> . Fourth Completely Revised Edition, Springer-Verlag, Berlin, Germany, pp. 17-18 (1976)
↓	AT	18	Rixon, R.H., et al., "Parathyroid Hormone Fragments May Stimulate Bone Growth in Ovariectomized Rats by Activating Adenylyl Cyclase," <i>J. Bone Min. Res.</i> 9:1179-1189, Mary Ann Liebert, Inc. (1994)

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ZH	AR	<u>19</u>	Robbins, D.C., et al., "Antibodies to Covalent Aggregates of Insulin in Blood of Insulin-Using Diabetic Patients," <i>Diabetes</i> 36:838-841, American Diabetes Association (1987)
	AS	<u>19</u>	Rubin, D.A., and Jüppner, H., "Zebrafish Express the Common Parathyroid Hormone/Parathyroid Hormone-related Peptide Receptor (PTH1R) and a Novel Receptor (PTH3R) That Is Preferentially Activated by Mammalian and Fugufish Parathyroid Hormone-related Peptide," <i>J. Biol. Chem.</i> 274:28185-28190, The American Society for Biochemistry and Molecular Biology, Inc. (October 1999)
↓	AT	<u>19</u>	Rosenblatt, M., "Parathyroid Hormone: Chemistry and Structure-Activity Relations," in <i>Pathobiology Annual Vol. 11</i> , Ioachim, H.L., ed., Raven Press, NY, pp. 53-86 (1981)

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ZH	AR	20	Shimizu, M., et al., "Type-Substitution Analysis of the Amino-Terminal Fragment of Parathyroid Hormone, PTH(1-14): An Approach toward New Low Molecular Weight PTH Agonists," <i>J. Bone Min. Res.</i> 14(suppl. 1):Abs. No. F398, Mary Ann Liebert, Inc. (September 1999)
	AS	20	Shimizu, M., et al., "Autoactivation of Type-1 Parathyroid Hormone Receptors Containing a Tethered Ligand," <i>J. Biol. Chem.</i> 275:19456-19460, The American Society for Biochemistry and Molecular Biology, Inc. (June 2000)
↓	AT	20	Shimizu, M., et al., "Minimization of Parathyroid Hormone. Novel Amino-Terminal Parathyroid Hormone Fragments with Enhanced Potency in Activating the Type-1 Parathyroid Hormone Receptor," <i>J. Biol. Chem.</i> 275:21836-21843, The American Society for Biochemistry and Molecular Biology, Inc. (July 2000)

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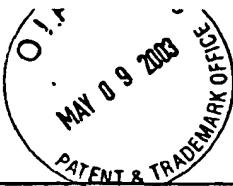
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AO						Yes No
AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ZH	AR	21	Smith, L.J., et al., "Human Interleukin 4. The Solution Structure of a Four-helix Bundle Protein," <i>J. Mol. Biol.</i> 224:899-904, Academic Press Ltd. (1992)
	AS	21	Smith, D.B., and Johnson, K.S., "Single-step purification of polypeptides expressed in <i>Escherichia coli</i> as fusions with glutathione S-transferase," <i>Gene</i> 67:31-40, Elsevier Science B.V. (1988)
↓	AT	21	Smith, T.F., and Waterman, M.S., "Comparison of Biosequences," <i>Adv. Applied Math</i> 2:482-489, Academic Press, Inc. (1981)

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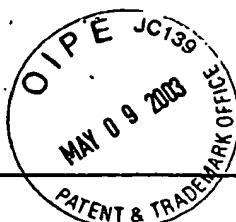
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ZH	AR	22	Stroop, S., et al., "Chimeric Human Calcitonin and Glucagon Receptors Reveal Two Dissociable Calcitonin Interaction Sites," <i>Biochem</i> 34:1050-1057, American Chemical Society (1995)
	AS	22	Suva, L.J., et al., "A Parathyroid Hormone-Related Protein Implicated in Malignant Hypercalcemia: Cloning and Expression," <i>Science</i> 237:893-896, American Association for the Advancement of Science (1987)
↓	AT	22	Szabo, P., "In Situ Hybridization," in <i>Human Chromosomes. Manual of Basic Techniques</i> , Verma, R.S., and Babu, A., eds., Pergamon Press, New York, NY, pp.152-165 (1989)

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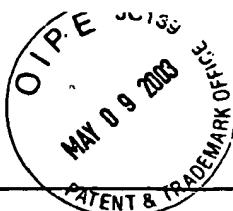
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ZH	AR	23	Takasu, H., and Bringhurst, F., "Type-1 Parathyroid Hormone (PTH)/PTH-Related Peptide (PTHRP) Receptors Activate Phospholipase C in Response to Carboxyl-Truncated Analogs of PTH(1-34)," <i>Endocrinology</i> 139:4293-4299, The Endocrine Society (October 1998)
	AS	23	Tregear, G.W., et al., "Bovine Parathyroid Hormone: Minimum Chain Length of Synthetic Peptide Required for Biological Activity," <i>Endocrinology</i> 93:1349-1353, The Endocrine Society (1973)
↓	AT	23	Tregear, G.W., and Potts, Jr., J.T., "Synthetic Analogues of residues 1-34 of Human Parathyroid Hormone: Influence of Residue Number 1 on Biological Potency <u>In Vitro</u> ," <i>Endocrine Res. Commun.</i> 2:561-570, Marcel Dekker, Inc. (1975)

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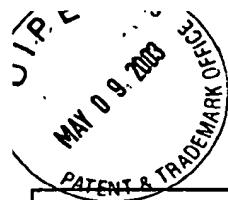
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ZH	AR	24	Turner, P., et al., "Single Mutations Allow the PTH2 Receptor to respond to PTHrP," <i>J. Bone Min. Res.</i> 12:Abs. No. 121, Blackwell Science, Inc. (August 1997)
	AS	24	Turner, P.R., et al., "A Putative Selectivity Filter in the G-protein -coupled Receptors for Parathyroid Hormone and Secretin," <i>J. Biol. Chem.</i> 271:9205-9208, The American Society for Biochemistry and Molecular Biology, Inc. (1996)
↓	AT	24	Turner, P.R., et al., "Transmembrane Residues Together with the Amino Terminus Limit the Response of the Parathyroid Hormone (PTH) 2 Receptor to PTH-related Peptide," <i>J. Biol. Chem.</i> 273:3830-3837, The American Society for Biochemistry and Molecular Biology, Inc. (February 1998)

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ZH	AR	25	Unson, C., et al., "Characterization of Deletion and Truncation Mutants of the Rat Glucagon Receptor. Seven Transmembrane Segments are Necessary for Receptor Transport to the Plasma Membrane and Glucagon Binding," <i>J. Biol. Chem.</i> 270:27720-27727, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
	AS	25	Van Ostade, X., et al., "Human TNF mutants with selective activity on the p55 receptor," <i>Nature</i> 361:266-269, Macmillan Magazines Ltd. (1993)
↓	AT	25	von Heinje, G., "A new method for predicting signal sequence cleavage sites," <i>Nucl. Acids. Res.</i> 14:4683-4690, IRL Pres Ltd. (1986)

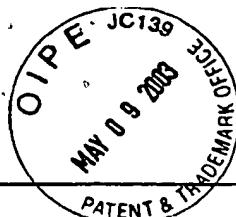
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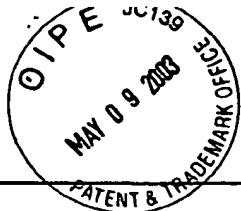
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	AL						Yes No
	AM						Yes No
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ZH	AR	26	Wilson, I.A., et al., "The Structure of an Antigenic Determinant in a Protein," Cell 37:767-778, MIT (1984)
	AS	26	Zhou, A., et al., "Direct mapping of an agonist-binding domain within the parathyroid hormone/parathyroid hormone-related protein receptor by photoaffinity crosslinking," Proc. Natl. Acad. Sci. USA 94:3644-3649, National Academy of Sciences (April 1997)
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ZH	AR	27	International Search Report for International Patent Application PCT/US99/28207 (mailed April 18, 2000)
	AS	27	International Search Report for International Patent Application PCT/US00/04716, (mailed October 11, 2000)
↓	AT	27	Dialog File 351, Accession No. 8882525, Derwent WPI English language abstract for European Patent Publication No. EP 0 464 533 (Document AN1), Derwent Information Ltd. (1992)

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AL						Yes
AM						No
AN						Yes
AO						No
ZH	AP4	WO 92/01810	02/06/1992	WIPO		Yes
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ZH	AR	<u>28</u>	Bergwitz, C., et al., "Identification, Functional Characterization, and Developmental Expression of Two Nonallelic Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Isoforms in <i>Xenopus laevis</i> (Daudin)," <i>Endocrinol.</i> 139:723-732, The Endocrine Society (February 1998)
ZH	AS	<u>28</u>	Bettoun, J.D., et al., "Cloning and Characterization of the Promoter Regions of the Human Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Gene: Analysis of Deoxyribonucleic Acid from Normal Subjects and Patients with Pseudohypoparathyroidism Type 1b," <i>J. Clin. Endocrinol. Metab.</i> 82:1031-1040, The Endocrine Society (April 1997)
ZH	AT	<u>28</u>	Bettoun, J.D., et al., "Developmental Upregulation of Human Parathyroid Hormone (PTH)/PTH-related Peptide Receptor Gene Expression from Conserved and Human-specific Promoters," <i>J. Clin. Invest.</i> 102:958-967, The American Society for Clinical Investigation, Inc. (September 1998)

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ZH	AR	<u>29</u>	Broadus, A.E., and Stewart, A.F., "Parathyroid Hormone-Related Protein, Structure, Processing, and Physiological Actions," in <i>The Parathyroids</i> , Bilezikian, J.P., ed., Raven Press, Ltd., New York, NY, pp.259-294 (1994)
ZH	AS	<u>29</u>	Gaich, G., et al., "Amino-Terminal Parathyroid Hormone-Related Protein: Specific Binding and Cytosolic Calcium Responses in Rat Insulinoma Cells," <i>Endocrinol.</i> 132:1402-1409, The Endocrine Society (1993)
ZH	AT	<u>29</u>	Gardella, T.J., et al., "Converting Parathyroid Hormone-related Peptide (PTHrP) into a Potent PTH-2 Receptor Agonist," <i>J. Biol. Chem.</i> 271:19888-19893, The American Society for Biochemistry and Molecular Biology, Inc. (1996)

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ZH	AR	<u>30</u>	Iida-Klein, A., et al.. "Truncation of the Carboxyl-terminal Region of the Rat Parathyroid Hormone (PTH)/PTH-related Peptide Receptor Enhances PTH Stimulation of Adenylyl Cyclase but Not Phospholipase C," <i>J. Biol. Chem.</i> 270:8458-8465, The American Society for Biochemistry and Molecular Biology, Inc. (1995)
ZH	AS	<u>30</u>	Iida-Klein, A., et al., "Structural Requirements of Parathyroid Hormone/Parathyroid Hormone-Related Peptide Receptors for Phospholipase C Activation and Regulation of Phosphate Uptake," <i>Miner. Electrolyte Metab.</i> 21:177-179, S. Karger AG (1995)
ZH	AT	<u>30</u>	Inomata, N., et al., "Characterization of a Novel Parathyroid Hormone (PTH) Receptor with Specificity for the Carboxyl-Terminal Region of PTH-(1-84)," <i>Endocrinol.</i> 136:4732-4740, The Endocrine Society (1995)

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ZH	AR	<u>31</u>	Jing, S., et al., "GDNF-Induced Activation of the Ret Protein Tyrosine Kinase Is Mediated by GDNFR- α , a Novel Receptor for GDNF," <i>Cell</i> 85:1113-1124, Cell Press (1996)
ZH	AS	<u>31</u>	Joun, H., et al., "Tissue-Specific Transcription Start Sites and Alternative Splicing of the Parathyroid Hormone (PTH)/PTH-Related Peptide (PTHrP) Receptor Gene: A New PTH/PTHrP Receptor Splice Variant that Lacks the Signal Peptide," <i>Endocrinol.</i> 138:1742-1749, The Endocrine Society (April 1997)
ZH	AT	<u>31</u>	Karaplis, A.C., et al., "Lethal skeletal dysplasia from targeted disruption of the parathyroid hormone-related peptide gene," <i>Genes & Devel.</i> 8:277-289, Cold Spring Harbor Laboratory Press (1994)

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ZH	AR	<u>32</u>	Kong, X.-F., et al., "The Rat, Mouse and Human Genes Encoding the Receptor for Parathyroid Hormone and Parathyroid Hormone-related Peptide are Highly Homologous," <i>Biochem. Biophys. Res. Comm.</i> 200:1290-1299, Academic Press (1994)
ZH	AS	<u>32</u>	Kovacs, C.S., et al., "Parathyroid hormone-related peptide (PTHrP) regulates fetal-placental calcium transport through a receptor distinct from the PTH/PTHrP receptor," <i>Proc. Natl. Acad. Sci. USA</i> 93:15233-15238, National Academy of Sciences (1996)
ZH	AT	<u>32</u>	Orloff, J.J., et al., "Analysis of PTHrP binding and signal transduction mechanisms in benign and malignant squamous cells," <i>Amer. J. Physiol.</i> 262:E599-E607, American Physiological Society (1992)

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ZH	AR	<u>33</u>	Orloff, J.J., et al., "A Midregion Parathyroid Hormone-Related Peptide Mobilizes Cytosolic Calcium and Stimulates Formation of Inositol Triphosphate in a Squamous Carcinoma Cell Line," <i>Endocrinol.</i> 137:5376-5385, The Endocrine Society (1996)
ZH	AS	<u>33</u>	Orloff, J.J., et al., "Further Evidence for a Novel Receptor for Amino-Terminal Parathyroid Hormone-Related Protein on Keratinocytes and Squamous Carcinoma Cell Lines," <i>Endocrinol.</i> 136:3016-3023, The Endocrine Society (1995)
ZH	AT	<u>33</u>	Potts, Jr., J.T., and Jüppner, H., "Parathyroid Hormone and Parathyroid Hormone-Related Peptide in Calcium Homeostasis, Bone Metabolism, and Bone Development: The Proteins, Their Genes, and Receptors," in <i>Metabolic Bone Disease</i> , 3 rd Edition, Avioli, L.V., and Krane, S.M., eds., Academic Press, San Diego, CA, pp. 51-94 (1998)

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ZH	AR	<u>34</u>	Rubin, D.A., et al., "Molecular Cloning and Expression of Receptors for Parathyroid Hormone (PTH) and PTH-Related (PTHRP) Protein in Zebrafish," Am. Zool. 36:97A Abs No. 373, Society for Integrative and Comparative Biology (1996)
ZH	AS	<u>34</u>	Rubin, D.A., and Jüppner, H., "Parathyroid Hormone (PTH)/PTH-Related (PTHRP) Receptor Cloning and In Situ Hybridization in the Zebrafish Danio rerio," Am. Zool. 37:181A Abs. No. 651, Society for Integrative and Comparative Biology (1997)
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ZH	AR	<u>35</u>	Schipani, E., et al., "Pseudohypoparathyroidism Type Ib Is not Caused by Mutations in the Coding Exons of the Human Parathyroid Hormone (PTH)/PTH-Related Peptide Receptor Gene," <i>J. Clin. Endocrinol. Metab.</i> 80:1611-1621, The Endocrine Society (1995)
ZH	AS	<u>35</u>	Sutcliffe, J.G., et al., "Antibodies That React with Predetermined Sites on Proteins," <i>Science</i> 219:660-666, American Association for the Advancement of Science (1983)
ZH	AT	<u>35</u>	Takasu, H., et al., "The 69-84 Amino Acid Region of the Parathyroid Hormone Molecule Is Essential for the Interaction of the Hormone with the Binding Sites with Carboxyl-Terminal Specificity," <i>Endocrinol.</i> 137:5537-5543, The Endocrine Society (1996)

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ZH	AT	<u>36</u>	Voet, D., and Voet, J.G., "A. Sickle-Cell Anemia: The Influence of Natural Selection," and "3. Abnormal Hemoglobins," in Biochemistry, Voet, D., and Voet, J.G., eds., John Wiley & Sons, Inc., New York, NY, pp. 126-128 and 228-234 (1990)

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ZH	AR	<u>37</u>	Wu, T.L., et al., "Structural and Physiologic Characterization of the Mid-region Secretory Species of Parathyroid Hormone-related Protein," <i>J. Biol. Chem.</i> 271:24371-24381, The American Society for Biochemistry and Molecular Biology, Inc. (1996)
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ZH	AT	<u>37</u>	Yamamoto, S., et al., "Parathyroid Hormone-Related Peptide-(1-34) [PTHrP-(1-34)] Induces Vasopressin Release from the Rat Supraoptic Nucleus in Vitro through a Novel Receptor Distinct from a Type I or Type II PTH/PTHrP Receptor," <i>Endocrinol.</i> 138:2066-2072, The Endocrine Society (May 1997)

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